9–255
(Jan. 1927)

see ago

P140

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Croton Falls 7½' Quad. 1.7S, 5.9E

Carmel 15' quad 15Y-9.7S-2.9E

RECORD OF WELL

1.7S
5.9E

Locate well on plat of section.

1. **Location:** State New York County Putnam
Nearest P. O. Mahopac Direction from P. O. SE
Distance from P. O. 2 miles; ¼ sec. ____, T. ____, R. ____
If in city, give street and number town of Carmel Mahopac Union Valley, N.Y.

2. **Owner:** Lloyd L. Archer Address 4 Putnam Ave., Brewster, N. Y.
Driller: P.F. Beal and Sons, Inc. Man on rig: Spence Coleman Address valley

3. **Situation:** Is well on upland, in valley, or on hillside? ____

4. **Elevation of top of well:** 390 ft. above (Above or below) the level of sea (Sea, depot, lake, or stream)

5. **Type of well:** drive point and dug (Dug, driven, bored, or drilled); kind of drilling rig used shovel, then drive point (Solid tool, jetting, rotary, etc.)

6. **Depth of well:** 48 ft.; year in which well was finished dug before 1800; drive point in 1948
Does well enter rock? no; if so, at what depth? — ft.; kind of rock —

7. **Diameter:** At top 30 inches; at bottom 6 inches.

8. **Principal water bed:** sand (Gravel, sand, clay, or rock. If rock, state kind)
Depth to principal water bed ____ ft.; thickness of bed ____ ft.
If other water supplies were found, give depth to each ____

9. **Casings:** Kind field stone; size 30"; length 18 ft.; between depths of 0 and 18 ft.
Kind ____; size ____; length ____ ft.; between depths of ____ and ____ ft.
Kind ____; size ____; length ____ ft.; between depths of ____ and ____ ft.
Packers (if any): Depth at which packers were used None; kind —
Screen or Strainer: Was well finished with screen? No; kind of screen built-in screening drive point;
length of screen ____ ft.; diameter ____ inches; size of openings ____

10. **Head:** Does well at present overflow without pumping? No; did it overflow when new? No;
if flowing, give pressure ____ lb. per sq. inch; or height water will rise in a pipe ____ ft. above surface;
original pressure or head ____; if not flowing, give water level in well 12 ft. below surface. reported - June 1949

11. **Pump:** Is the well pumped? Yes; kind of pump Dom. SW;
size or capacity of pump ____; kind of power electric

12. **Yield:** Natural flow at present (if any) ____ gallons per minute; original flow ____ gallons per minute;
well has been pumped at 2 GPM or less gallons per minute continuously for ____ hours;
quantity of water ordinarily obtained from well 300 gallons per day. est.

13. **Use:** For what purpose is the water used? Dom - 1 family - 2 people.

14. **Quality of the water:** hard - see over (Hard or soft, fresh or salty, etc.); is there an analysis? Yes (over)
Temperature of water ____ °F.

15. **Cost of well,** not including pump: ____

Name of person filling blank I. G. Grossman from driller's records + Mrs. + Mrs. Lloyd Archer
Address U.S. Geol. Survey, Albany
Date June, 1949 7-10-50

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On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.
Log from Spence Coleman 8-24-50 + L. Page has owned.

Form BR. 32-P-Sheet 1. 2-24-41-3000 (11E-6070)
Ord. E5-41

P140 return to Archer eventually

Hy. No. 1455
R. C. No. F.A. 47-63
D. E. No.
Division
County Putnam

NEW YORK STATE
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
LABORATORY
ALBANY
SAND TEST REPORT

Test No. 47-F-20
Retest on -F-
D. E. Sample No.
District Sample No. 8-1006S

Sample of Wash (Com. or local) sand taken 6-18, 19 47 by Miller Rec'd 7-14 19 47
Property of Lloyd L. Archer Town of Carmel County of Putnam
Source Bank Submitted for use in items all items, Available supply unlimited Cu. yds.
To be used on Brewster-Conn. St. Line County of Putnam
Quad 231 Sec. 4 Letter O No. 21 Haul is 8½ miles to Sta. 43 of Hy. No.

SIEVE ANALYSIS

Sieve No.	Open Inch	% Passing Weight	
⅜	0.371		
~~3~~	0.250	100	
4	0.185	99.2	
6	0.131		
8	0.093	86.2	
12	0.058		
14	0.046	66.2	
20	0.0328		
28	0.0232	41.8	
48	0.0116	19.5	
50	0.0100		
100	0.0058	6.9	
Finer	—	0.0	

Fineness Modulus = 2.802

This sample contained 0.0 % of gravel which must be screened out before sand is used.

Items marked with an asterisk (*) do not comply with the specification requirements.

P. O. Address

RATIONAL ANALYSIS

Mineral Constituent	%
Kaolin	4.9
Feldspar	56.59
Quartz	30.58
Ca Co_3	1.28
Mg Co_3	2.06
R_2O_3	4.59
H_2O	0.11
CO_2	1.64

COMPRESSION STRENGTH RATIO

Age	Natural	Washed
7-day	100	
28-day	103	

TENSILE STRENGTH RATIO

Age	Natural	Washed
7-day	105	
28-day	112	

OTHER DETERMINATIONS

Loam and silt (by weight) = %
Loam and silt (by volume) = 2.1 %
Organic material = color Pale amber No. 3
Org. mat. (after wash.) = color No.
Abrasion loss = %
Sod. sul. loss = 5 cy. %, 10 cy. 1.87 %
Mag. sul. loss = 5 cy. 10.85 %, 10 cy. %
Absorption = %, pH value = %
Specific gravity = 2.67 Voids = 37.7%
REMARKS:

Acceptance or Rejection
Mr. J. S. Bixby, District Engineer No. 8 Dated August 25 19 47

Sand as represented by this sample is accepted for the 1942 Highway Specifications and for Fine Aggregate Type B of the 1947 "Public Works Specifications."

GUY W. PINCK, DEP. CHF. ENGR.
Chief Engineer, Division of Engineering

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET From—	DEPTH, IN FEET To—	THICKNESS, IN FEET	REMARKS (Especially information as to water found)
Sand (dug well	0	18	18	
Sand (drive point)	18	48	30	sand get coarser as go down

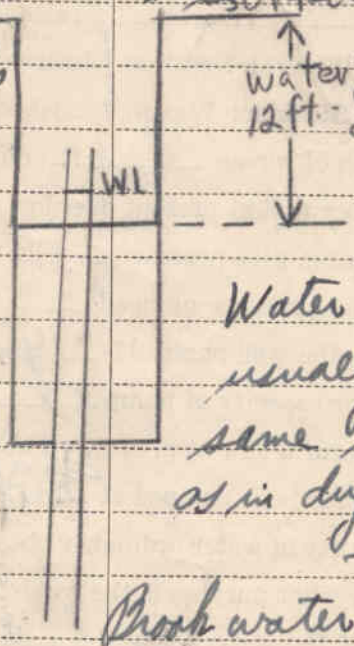
L. Page's notes.

Owner of well operates gravel pit located about 300 ft. north of house - has had to shut down operations at times due to lack of water in brook. Owner says P.F. Beal tried to develope his dug well by driving a point in bottom of old well (30 ft.). Did not encounter bed rock. Material too fine. Water level in iron casing is above water level in surface casing.

Lloyd L. ARCHER - ANALYSES

	Driven — ~~Drill~~ WELL 6-18-48	DUG well 6-24-48
Total hardness	118	266
Sod. salts	12	24
Total solids	130	290
Fe	0.0	0.0
Mn	0.0	0.0
PH	6.8	6.6
Total comp. hardness	7.0	15.8
Objectionable characteristics = hardness, suspended matter = trace organic. settles.		hardness, little floc. organic. settles. musty odor.

L. Page's sketch



Water in pipe usually about same level as in dug well - owner.

Brook water used for gravel pit.

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